

**O & M INSPECTION REPORT
FOR NAVIGATION AND SHORE PROTECTION PROJECTS**

1. Project Name: Auasi SBH
2. Date of Inspection: April 6, 2004
3. Inspection Personnel:

	<u>Name</u>	<u>Agency/Office</u>	<u>Telephone No.</u>
a.	Dan Meyers	COE	438-8875
b.	Jessica Hays	COE	438-1680

4. CEI Rating:

As a result of the FY04 Continuing Eligibility Inspection conducted on April 6, 2004 the project was rated **SATISFACTORY**, Project Condition Code is **ACCEPTABLE** and the project is considered **ACTIVE** in the Rehabilitation and Inspection Program.

5. Discussion:

East Revetment/Breakwater/Jetty:

<u>Station</u>	<u>Description</u>
0+00 to 0+77	Revetment Reach 1
0+77 to 1+65	Revetment Reach 2
1+65 to 2+87	Breakwater
0+00 to 0+90	Jetty

The structure was measured as described in the following. Revetment Reach 1 begins at the structure's joint with the embankment to the road and ends at the approximately 90-degree turn of the centerline to the southwest. Revetment Reach 2 begins at the end of Revetment Reach 1 and extends to the end of a transition area visible by a change in structure crest elevation. The Breakwater begins at the end of this transition area and extends to the end of the structure on this alignment. The Jetty begins at its joint with the Breakwater, at the first stone on centerline at a lowered elevation, and extends to the end of the structure on this alignment.

The major damages / deficiencies were as follows:



a. Approximate Sta. 0+25, No damage to Revetment Reach 1.



c. Sta. 1+11, OS, Settling at side slope hinge, approx. 5 ft diameter.



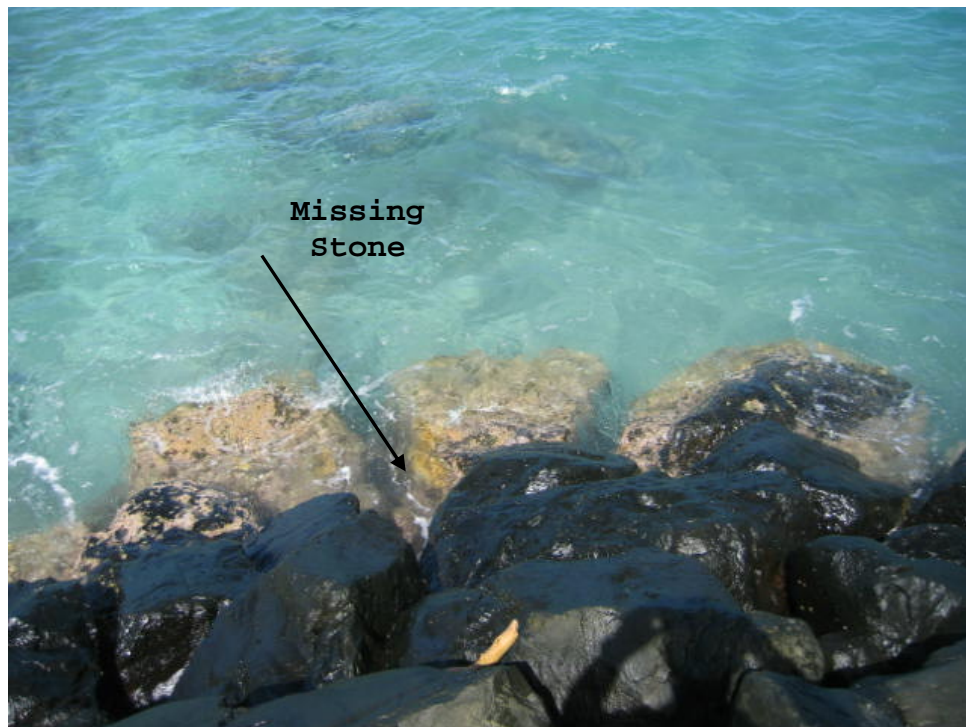
c. Sta. 1+27, fractured stone on crest.



d. Sta. 1+65, End of revetment and crest elevation change, single perched stone on centerline.



e. Sta 2+30, OS, Minor settling of crest and hinge.



e. Sta 2+87, End of breakwater, toe stones intact, possible missing stone.



f. Sta 0+00 (Jetty), HS, Toe stone displaced at breakwater/jetty joint.

Note: Jetty Station 0+00 located at first stone of lowered elevation.



g. Sta. 0+05 (Jetty), Crest, Monitor dislodged armor stones, underlayer exposed. (same as previous year, 2003)



h. Sta. 0+17 (Jetty), Crest missing armor stone with underlayer exposed.



i. Sta. 0+48 (Jetty), Crest/HS, perched armor stone resting on crest and void.



j. Sta 0+48 (Jetty), OS, Tipped stone and void.



k. Sta 0+90 (Jetty), End of jetty, head is in good condition.

West Jetty:



Notes: Sta 0+00 marked by metal pole.
Sta 0+35, small coconut tree growing.



a. Sta. 0+55, Crest, void at centerline (2'x 2'x 2').



b. Sta. 0+55, HS, slight sideslope settling, 10'x5' area. (2003 Photo)



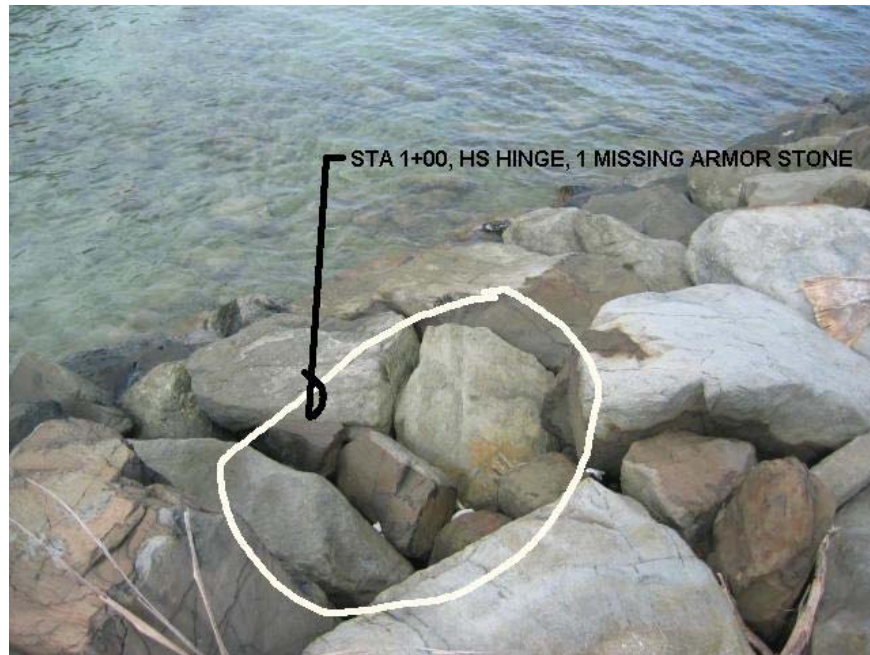
c. Sta. 0+55, HS, void at toe. (2003 Photo)



d. Sta 0+64, CL, Coconut tree growing.



e. Sta 0+65, Overview of harborside slope.



d. Sta. 1+08, HS, 1-ea missing armor stone at hinge. (2003 Photo)
Note: Coconut trees at Sta 0+99 and 1+13.



e. Sta 1+84, HS, Small void at CL of crest with underlayer exposed(not shown), void halfway down HS sideslope, one stone bridging.



f. Sta. 2+25, crest, 2 split armor stone, split due to overblasting at the quarry site during quarrying operation (2002 PHOTO).



g. Sta. 2+72, HS, 1 split armor stone.



h. Sta. 2+79, OS sideslope slight depression.



i. Sta 3+12, HS, Sideslope and hinge settling, UL exposed.



j. Sta. 3+52, HS, 1 dislodged armor stone at the toe.



k. Sta. 3+87, HS, 4 armor stones resting 3' from the toe of the structure, no obvious voids.



1. Sta. 4+20, OS, 2 dislodged armor stones from head.



m. Sta 4+30, Head, Voids and sideslope failures on OS (crest to water level, 0-80 degrees).



n. View of west jetty head from a distance.

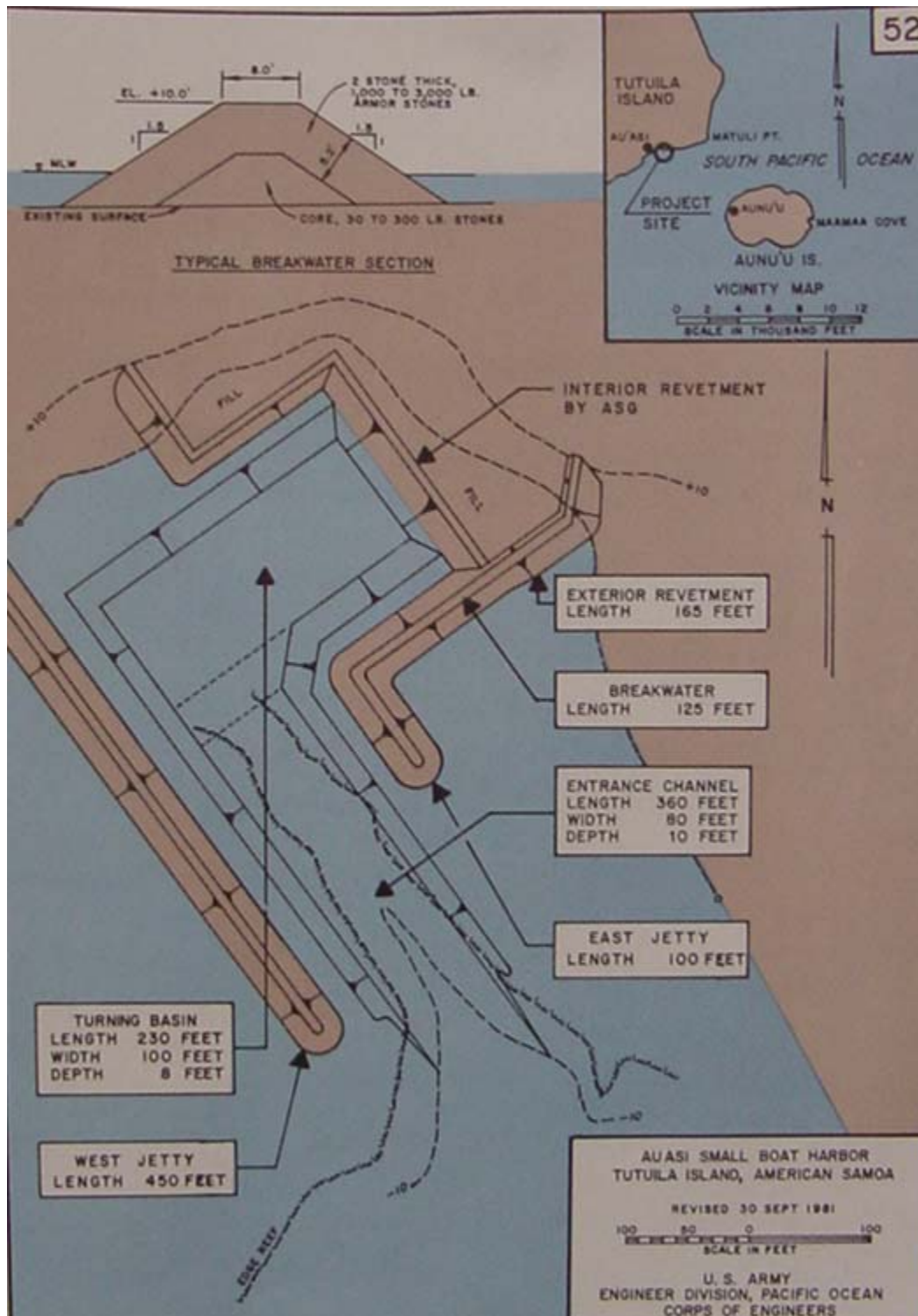
5. Findings/Conclusions:

The East Exterior Revetment (165LF) + Breakwater (125LF) + East Jetty (90LF) are evaluated as the East Breakwater (390LF). These structure function primarily as 1 breakwater and for rehabilitation purposes, as they are connected, any impact to one structure will affect all. The major item of concern noted during this and previous inspections was the condition of the West Jetty's head, monitor the armor stones as they may have moved since the last inspection cycle. Also, several coconut palms need to be removed from the West Jetty trunk. The overall condition of the project is GOOD.

Signed: _____
Jessica Hays, CEPOH-EC-T

Signed: _____
Jim Pennaz P.E., Ch, CEPOH-EC-T

Attached:
Project Index Map



AUASI SMALL BOAT HARBOR, AMERICAN SAMOA

CONDITION OF IMPROVEMENT 30 SEPTEMBER 1993

PREVIOUS PROJECTS: None.

EXISTING PROJECT: Authorized for construction on 22 June 1978 under Section 107 of the River and Harbor Act of 1960, as amended. Provides for an entrance channel 360 feet long, 80 feet wide and 10 feet deep; a turning basin 230 feet long, 100 feet wide and 8 feet deep; a breakwater 125 feet long; an exterior revetment 165 feet long; an east jetty 100 feet long; a west jetty 450 feet long; and appurtenant aids to navigation.

PROGRESS OF WORK

Completed and Under Maintenance: The project was completed in March 1981. A single contract to repair damages to public facilities caused by Hurricane Ofa in February 1990 at Aunuu Harbor and to repair damages to breakwaters caused by Hurricane Val in December 1991 at Aunuu and Auasi Small Boat Harbor was awarded in August 1992 for \$415,000 of which \$20,000 was for Auasi. Repair work at Auasi was completed in February 1993.

Work Remaining: None. Financial completion pending completion of repair work at Aunuu Harbor.

COST OF CONSTRUCTION:

	<u>New Work</u>	<u>Maintenance</u>	<u>Total</u>
<u>Completed Works:</u>			
United States Funds			
Corps of Engineers	\$955,213		\$955,213
Coast Guard	47,076		47,076
Contributed Funds			
Required	86,235		86,235
Other	<u>7,412</u>		<u>7,412</u>
Total Costs	\$1,095,936		\$1,095,936
<u>Uncompleted Works:</u>			
United States Funds		<u>\$79,500</u>	<u>\$79,500</u>
Total Estimated Costs		\$79,000	\$79,000

RANGE OF TIDES: The range of tide between mean low water and mean high water is 2.5 feet.